

In the claims:

1 - 9. (Canceled)

10. (Currently amended) A headering arrangement for a heat exchanger for use in automotive applications, comprising:

a heat exchanger body part;

a plastic heat exchanger tank part;

a header;

a plurality of tubes extending from the heat exchanger body part;

a header pan disposed at an end of the plurality of tubes, wherein the header pan i) includes a plurality of slots for receiving the plurality of tubes, ii) is a flat pan, and iii) defines a plurality of collars, each of the plurality of collars forming a ferrule surrounding and in contact with a respective one of the plurality of tubes;

a tank foot at the end of the heat exchanger tank part; and

a gasket;

wherein:

each slot of the plurality of slots is formed with a respective one of the plurality of collars to accept a respective one of the plurality of tubes;

the plurality of tubes passes through the plurality of slots, abuts the tank foot, and directly maintains the tank foot in place;

the plurality of collars is inverted in relation to a line of extension of the plurality of tubes; and

the line of extension is defined by a direction vector that extends away from the respective one of the plurality of tubes, parallel to a central axis of an end segment of the respective one of the plurality of tubes.

11. (Previously presented) A headering arrangement for a heat exchanger as in claim 10, wherein the plurality of tubes extending from the heat exchanger body part has a length of: less than twice the thickness of the header plus the tank foot

width of the header; or about twice the thickness of the header plus the tank foot width of the header.

12. (Previously presented) A headering arrangement for a heat exchanger as in claim 11, wherein the header pan further comprises at least one flat medallion.

13. (Canceled)

14. (Previously presented) A headering arrangement for a heat exchanger as in claim 12, wherein the gasket is essentially flat in shape.

15 - 16. (Canceled)

17. (Previously presented) A headering arrangement for a heat exchanger as in claim 10, wherein the header pan further comprises at least one flat medallion.

18. (Previously presented) A headering arrangement for a heat exchanger as in claim 10, wherein the gasket is essentially flat in shape.

19. (Currently amended) A headering arrangement for a heat exchanger for use in automotive applications, comprising:

a heat exchanger body part;

a plastic heat exchanger tank part;

a header;

a plurality of tubes extending from the heat exchanger body part

a header pan disposed at an end of the plurality of tubes, wherein the header

pan i) includes a plurality of slots for receiving the plurality of tubes, ii) is a flat pan,

and iii) defines a plurality of collars, each of the plurality of collars forming a ferrule

surrounding and in contact with a respective one of the plurality of tubes, and wherein the header pan further includes at least one flat medallion;

a tank foot at the end of the heat exchanger tank part; and

a gasket essentially flat in shape;

wherein:

each slot of the plurality of slots is formed with a respective one of the plurality of collars to accept a respective one of the plurality of tubes;

the plurality of tubes passes through the plurality of slots, abuts the tank foot, and directly maintains the tank foot in place;

the plurality of collars is inverted in relation to a line of extension of the plurality of tubes; and

the line of extension is defined by a direction vector that extends away from the respective one of the plurality of tubes, parallel to a central axis of an end segment of the respective one of the plurality of tubes.